No.



8300129

# THE DATHED STRAILES OF ANTERION

TO ALL TO WHOM THESE PRESENTS SHALL COME:

# Jacob Hartz Seed Co., Inc.

Withereas, there has been presented to the

## Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to exude others from selling the variety, or offering it for sale, or reproducing it, apporting it, or exporting it, or using it in producing a hybrid or different therefrom, to the extent provided by the Plant Variety Protection Act 1542, as amended, 7 u.s.c. 2321 et seq.)

SOYBEAN

'Hartz 7126'

In Lestimonn Educacot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 26th day of October in

this 26th day of October in the year of our Lord one thousand nine hundred and eighty-four.

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Lensett Alaran

Plant Variety Protection Office Livestock, Meat, Grain & Seed Division

Agricultural Marketing Service Secretary of Agri

R Blok Secretary of Agriculture

U.S. DEPARTMEN AGRICULTURAL N	FO	FORM APPROVED: OMB NO.0581-0055						
LIVESTOCK, MEAT, GRAIN & SEED DIVISION					No certificate for plant variety protection			
APPLICATION FOR PLANT VAR (Instruction	HETY PROTE Ins on reverse)	ECTION CERTIFICATE	catio	on form ha	unless a completed ap as been received (5 U.S			
1. NAME OF APPLICANT(S)		2. TEMPORARY DESIGNATIO	N 3.	VARIETY:	NAME MS 7/19			
Jacob Hartz Seed Co., Inc.		HARTZ 7126						
4. ADDRESS (Street and No. or R.F.D. No., City, St.	ate, and Zip Code	5. PHONE (Include area code)	7	FOR OF	FICIAL USE ONLY			
P. O. Box 946, N. Park Avenue					R ·			
Stuttgart, Arkansas 72160		501/673-8565		83	300129			
6. GENUS AND SPECIES NAME		AME (Botanical)	FILING	DATE	. /oo			
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8. KIND NAME	- 1-			8:00	) XXA.MP.M. TFOR FILING			
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#### EXHIBIT A

### ORIGIN AND BREEDING HISTORY OF THE VARIETY

HARTZ 7126

H76-672-3A originated from an  $F_2$  plant selected at Stuttgart in 1976 from the cross 'Forrest' x 'Ransom'. Seed from the  $F_2$  plant was advanced in a plant row (No.672) in Belize, C.A., and harvested in bulk the winter of 1976-77. The  $F_4$  generation was grown in an observation nursery at Stuttgart in 1977. The line identified as H76-672 was segregating for plant height and maturity. Two sets of four plants each designated 1A-4A and 1B-4B were selected and grown in plant to row in 1978. Row 3A was harvested in bulk and yield tested as H76-672-3A in 1979 through 1982 in Jacob Hartz Seed Company tests. It was tested in experiment station tests in Arkansas, Louisiana, Alabama, Georgia and Texas in 1981 and in Arkansas, Louisiana, Alabama, Georgia, Texas, Tennessee,  $\frac{148072}{1136}$  South Carolina and Florida in 1982. H76-672-3A was rated for resistance to foliar diseases and nematodes at Stuttgart and other Jacob Hartz Seed Company test sites.

MARTZ 7126'

<u>Evidence of Stability</u> - H76-672-3A breeds true for flower color, pubescence color, hilum color, maturity, Race 3 cyst nematode resistance and bacterial pustule resistance.

Kinds of Variants - The usual environmental variations in seed size and plant height have been observed. A low frequency (about two per pound) of seeds with a faded hilum color appearing grayish, light brown and dark brown occur, but all have purple flowers.

AS MANY AS 0.490 OF BUFF OR IMPERFECT BLACK HILA SEED MAY BE PRESENT THAT WERE PRODUCED ON EITHER WHITE OR PURPLE FLOWERED GRAY PUBBLECENT PLANTS. (APPLICANTS LETTER OF 1/29/87)

PJS 1/30/87

8300129

Telephone (501) 673-8565/TWX: 910-720-6244

Company, Inc.

🌙 P.O. Box 946 — Stuttgart, Arkansas 72160

June 20, 1984

Mr. Robert J. Snyder, Examiner Plant Variety Protection Office National Agricultural Library Building Beltsville, MD 20 70 5

Dear Mr. Snyder:

EXHIBIT A

Subject: Soybean Applications: No. 8300126 'Hartz 5171'

No. 8300127 'Hartz 6383'

No. 8300128 'Hartz 5370'

No. 8300129 'Hartz 7126'

No. 8300130 'Hartz 5252'

This is in response to your letter of May 31 concerning the uniformity and stability of the five Hartz soybean varieties listed above.

- 1. Uniformity: The variants described in Exhibit A of the Application for Plant Variety Protection are acceptable to the industry. They do not represent either a nutritional or economic effect on the variety for either the farmer or end user. Each year we have tried unsuccessfully to eliminate all the variants by roguing. However, the variants have not exceeded those listed in Exhibit A.
- Stability: Each of the varieties are stable for the major morphological characters. The seed can be produced through three generations from Breeders seed (Foundation through Certified seed) without significant change. However, the usual care in roguing, combining, and seed cleaning must be followed as with all varieties. Hartz 5171, Hartz 6383, Hartz 7126, and Hartz 5252 have been produced for two years under commercial conditions and were inspected in the field and laboratory by the Arkansas State Plant Board for certification. Hartz 5370 was grown commercially for the first time in 1983. We have had certification problems with a few lots, but the problems were all judged to be due to mechanical mixture.

Thank you.

Sincerely,

JACOB HARTZ SEED COMPANY, INC.

Curtis Williams

Director of Research

Cutter Well in

CW/mjt

### EXHIBIT B

#### NOVELTY STATEMENT

HARTZ 7126

<H76-672-3A7is a determinant early Maturity Group VII cultivar with resistance to Race 3 of the soybean cyst nematode, moderate resistance to the reniform nematode, resistance to bacterial pustule, downy mildew and frogeye leafspot. It is susceptible to phytophthora root rot caused by Phytophthora megasperma var. sojae, but has field tolerance to this disease.

It is susceptible to root-knot nematode Meloidogyne incognita.

KH76-672-3A) has purple flowers, tawny pubescence, tan pod walls and yellow seed with black hila. Plants with purple flowers, gray pubescence and imperfect black hila and plants with white flowers, gray pubescence and buff hila may occur in a frequency of up to two seed per pound, respectively.

HARTZ 7/26'

Plants of KH76-672-3A) can be distinguished from Ransom, Braxton, Bragg,

Terra-Vig 708, A7372, DPL 417, DPL 497 and Wilstar 790 by its resistance reaction to Race 3 of the cyst nematode, while those afore varieties are susceptible.

Most similar variety: <H76-672-3A) is most similar to Ransom, however, HARTZ 1/26' <H76-672-3A) is resistant to Race 3 of the soybean cyst nematode while Ransom is susceptible.

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EXHIBIT C (Soybean)

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20706

# OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

00.01.	,,		····
NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME HARTZ	- 1126
Jacob Hartz Seed Co., Inc.	H76-672-3A	<del>-Undecide</del> d	
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Cod	le)	FOR OFFICIAL US	SE ONLY
P. O. Box 946, N. Park Avenue	·	PVPO NUMBER	
Stuttgart, Arkansas 72160		830012	9
Choose the appropriate response which characterizes the var in your answer is fewer than the number of boxes provided,	riety in the features described by place a zero in the first box w	pelow. When the number of then number is 9 or less (e.g.	significant digits ., 0 9).
1. SEED SHAPE:			
	. []		
[2]  L   W			
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	2 = Spherical Flattened ( 4 = Elongate Flattened (	(L/W ratio > 1.2; L/T ratio = < L/T ratio > 1.2; T/W > 1.2)	, 1.2)
2. SEED COAT COLOR: (Mature Seed)			-
1 1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other	(Pagaifu)	
1 1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other	IOPECITYT	:
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)			
2 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebso	oy'; 'Gasoy 17')	• • •	
4. SEED SIZE: (Mature Seed)			
			F
1 3 Grams per 100 seeds			
5. HILUM COLOR: (Mature Seed)			
5. FILOW COLOR. (Mature Secu)		•	
6 1 = Buff 2 = Yellow 3 = Brown	4 = Gray 5 = Imperfect Bla	ck 6 = Black 7 =	Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)			terminal and the second
1 = Yellow 2 = Green			
7. SEED PROTEIN PEROXIDASE ACTIVITY:			
( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )			
1 = Low 2 = High	· ·		
8. SEED PROTEIN ELECTROPHORETIC BAND:			
1 = Type A (SP1 <sup>a</sup> ) 2 = Type B (SP1 <sup>b</sup> )			
9. HYPOCOTYL COLOR:			
		MAL	
1 = Green only ('Evans'; 'Davis') 2 = Green wit 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson';	The state of the s	woodwortn:;-Tracy:)	
O. LEAFLET SHAPE:			
3 1 = Lanceolate 2 = Oval 3 = Ovate	4 = Other (Specify)		·
3 = Ovate	4 ~ Other (Specify)		

FORM LMGS-470-57 (2-82)

11. LEAF	LET SIZE:	ter en
2	1 = Small ('Amsoy 71'; 'A5312') 2 = Medium ("Corsoy 79'; 'Gasoy 17') 3 = Large ('Crawford'; 'Tracy')	
12. LEAF	COLOR:	
3	1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corsoy 79'; 'Braxton') 3 = Dark Green ('Gnome'; 'Tracy')	
13. FLOW	ER COLOR:	
2	1 = White 2 = Purple 3 = White with purple throat	
14. POD 0	OLOR:	
	1 = Tan 2 = Brown 3 = Black	
15. PLAN	PUBESCENCE COLOR:	
2	1 = Gray 2 = Brown (Tawny)	
16. PLANT	TYPES:	the state of the s
2	1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amsor'; 'Braxton') 3 = Bushy ('Gnome'; 'Govan')	
17. PLAN1	HARIT:	
1	1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')	
18. MATU	RITY GROUP:	
1 0	1 = 000	8 = V
19. DISEA	E REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)	
BACT	ERIAL DISEASES:	
2	Bacterial Pustule (Xanthomonas phaseoli var. sojensis)	
0	Bacterial Blight (Pseudomonas glycinea)	
0	Wildfire (Pseudomonas tabaci)	
FUNGA	L DISEASES:	· · · · · · · · · · · · · · · · · · ·
	Brown Spot (Septoria glycines)	
	Frogeye Leaf Spot (Cercospora sojina)	23 (1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
		er <i>(Specify)</i> ace Undetermined
0	Target Spot (Corynespora cassiicola)	
2	Downy Mildew (Peronospora trifoliorum var. manshurica)	A Company of the State of the S
0	Powdery Mildew (Microsphaera diffusa)	
	Brown Stem Rot (Cephalosporium gregatum)	

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19; DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = 1	Resistant) (Continued)	en particular de la companya de la La companya de la co	
FUNGAL DISEASES: (Continued)			
O Pod and Stem Blight (Diaporthe phaseolorum var; sojae)		_	
0 Purple Seed Stain (Cercospora kikuchii)			
0 Rhizoctonia Root Rot (Rhizoctonia solani)			
Phytophthora Rot (Phytophthora megasperma var. sojae)		· ·	
1 Race 1 1 Race 2 1 Race 3 1	Race 4 0 Race 5	O Race 6	1 Race 7
0 Race 8 0 Race 9 Other (Specify)			
VIRAL DISEASES:		÷ .	
0 Bud Blight (Tobacco Ringspot Virus)			
O Yellow Mosaic (Bean Yellow Mosaic Virus)			•
O Cowpea Mosaic (Cowpea Chlorotic Virus)		•	
O Pod Mottle (Bean Pod Mottle Virus)	•		
Seed Mottle (Soybean Mosaic Virus)		·.	
NEMATODE DISEASES:	e. Na		
Soybean Cyst Nematode (Heterodera glycines)			
0 Race 1 0 Race 2 2 Race 3 1	Race 4 Other (S	pecify)	
0 Lance Nematode (Hoplolaimus Colombus)			
Southern Root Knot Nematode (Meloidogyne incognita)			
Northern Root Knot Nematode (Meloidogyne Hapla)			·
Peanut Root Knot Nematode (Meloidogyne arenaria)	·		
Parishan Named (Parishan)	oto Doodotõmas)	en e	:
OTHER DISEASE NOT ON FORM (Specify):	ate Resistance)		
20. PHYSIOLOGICAL RESPONSES: (Enter 0 = Not Tested; 1 = Suscept	ible; 2 = Resistant)		
1ron Chlorosis on Calcareous Soil			
Other (Specify)			•
21. INSECT REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Re	sistant)		<u> </u>
Mexican Bean Beetle (Epilachna varivestis)			
O Potato Leaf Hopper (Empoasca fabae)			
Other (Specify)			<del>-</del>
2. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT	SUBMITTED.		
CHARACTER NAME OF VARIETY	CHARACTER	NAME OF	VARIETY
Plant Shape	Seed Coat Luster		
Leaf Shape	Seed Size		
Leaf Color	Seed Shape		
Leaf Size	Seedling Pigmentation		
			7

## 23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comperison Data

	1/NO. OF . 2/PLANT DAYS LODGIN		3/cm PLANT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
	l	SCORE	HEIGHT	CM Width	CM Length	4/% Protein	14/% Oil	SEEDS	POD
H76-672-3A Submitted	149	1.7	109	N/A	N/A	39.6	21.8	12.8	2 and 3
Ransom Name of Similar Variety	149	1.5	94	N/A	N/A	41.4	21.6	14.8	2 and 3

## PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A<sub>2</sub> in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

 $\frac{1}{2}$ / Planted May 17, 1982 at Stuttgart  $\frac{2}{2}$ / 9 tests  $\frac{3}{4}$ / 4 tests  $\frac{4}{2}$ / 9 locations

### EXHIBIT D

## BASIS OF APPLICANT'S OWNERSHIP

Jacob Hartz Seed Company, Incorporated, Stuttgart, Arkansas established a plant breeding program in 1972 for the purpose of developing, releasing, and maintaining stocks of soybean varieties developed by its plant breeding program.

Dr. Curtis Williams, plant breeder, was licensed to breed soybeans by the Arkansas State Plant Board, December 9, 1977. Dr. Williams and co-workers developed and tested this variety in trials at Stuttgart, Arkansas.

EXHIBIT D

	Cultivar					
Trait	HARTZ 7126 < H76-672-3A 7	Ransom	Braxton	Bragg		
Seed size $(g/100)^{1/2}$	12.8	14.8	15.8	<u> </u>		
Maturity date (day in Oct.)	2/ 27	27	28	27		
Plant height $\frac{3}{}$ (centimeters)	109	94	112	107		
(inches)	43	37	44	42		
Seed quality score*4/	1.7	1.6	1.8	1.7		
Lodging score*5/	2.1	1.8	1.5	2.0		
Flower color	Purple	Purple	Purple	White		
Pubescence color	Tawny	Tawny	Tawny	Tawny		
Pod wall color	Tan	Tan	Tan	Tan		
Hilum color	Black	Black	Black	Black		
Cyst nematode, Race 3	Res.	Sus.	Sus.	Sus.		

 $<sup>\</sup>frac{1}{8}$  8 Locations  $\frac{2}{3}$  3 years at Stuttgart  $\frac{3}{3}$  3 years at Stuttgart

 $<sup>^4</sup>$ / 10 Locations  $^5$ / 3 years at Stuttgart \* Seed quality was scored 1=very good to 5=very poor quality. Lodging was scored 1=no lodging to 5=all plants down badly.